

HIGH TECHNOLOGY COMPUTER SYSTEMS PTY. LTD.

87 SWAN STREET, RICHMOND VIC., 3121
TELEPHONE: (03) 429 1966

HIGH TECHNOLOGY NUMBER 1

The last newsletter began with THANK YOU to all our customers - and at the risk of sounding repetitious, once again we say THANK YOU for your support! We were delighted by the news from Commodore in July that we were Australia's number one dealer. We owe it all to you, our valued users, and will continue our policy of returning your confidence with the best service we can possibly provide!

COMMODORE SLASHES PRICES

Commodore rocked the entire industry by announcing incredible price cuts on hardware and software effective 1 September. The C64 was slashed by \$200, as were the 1541 disk drive and 1526 printer. VIC cartridge prices also took a pounding (check our new price list). All this at a time when stock was hard to get and our order books were overflowing! The C64 is now unquestionably the pacesetter for the home computer market. This is good news for all users as it ensures a continuing flow of hardware and software for their machines.

HIGH TECH GOES WHOLESALE

Important action behind the scenes at HIGH TECHNOLOGY has included the formation of a new subsidiary, HIGH TECHNOLOGY COMPUTER WHOLESALE to handle our growing distribution and manufacturing interests. This means that our range of software and accessories will be even greater. Watch out for many new and exciting products coming online soon!

SECOND STORE OPENING SOON

It seems like only yesterday that we made the big shift to Swan Street, but growth has caught up with us and

we now must seek pastures new. We shall soon be opening our second Melbourne store, with improved facilities for service and manufacture. More details of opening specials next newsletter!

NEW FACES

Sandra Jeffries joined us recently and has been a tremendous help in improving our service to you. John Kiddon has also come to us from a certain well-known electronics distributor (say goodnight, Dick) and will be overseeing the new store.

WE WANT YOU

The response to our appeal for top software was fantastic ... thank you to all who contacted us. To those whose work wasn't yet ready for commercial release, we hope we can encourage you to keep trying ... to those whose efforts passed the grade, enjoy the royalty cheques! If you are sitting on the Great Australian Computer Program, contact Mike for an appointment to discuss your software. Remember the golden criteria: technical quality, documentation, originality (no more HANGMAN, please!). If you don't live in Melbourne, write for our free author's kit.

 **commodore**
VIC 20

So much brain for so little.

COMMODORE 64 

DAISYWHEEL PRINTER \$899

Let your mouth water at this one ... a daisy wheel correspondence quality printer at only \$899! We are proud to announce supplies of the fantastic BROTHER HR15 printer with all cabling and interfacing at this unheard-of price. The HR-15 is an intelligent, bi-directional printer with 3K buffer, two colours, bold printing, underlining, proportional spacing, 110-165 characters per line ... team it with EASY SCRIPT for an unbeatable top-quality word processing system. Demand is sure to be heavy, so order NOW!

SIMON'S BASIC

The most-asked for program lately has been the Simon's BASIC cartridge. We have at last tried a copy, and it is SUPERB. It adds 114 additional programming commands to BASIC. These commands fall into 12 broad areas:

PROGRAMMING AIDS, such as KEY and TRACE, to facilitate speedier, more efficient BASIC programming;

CHARACTER STRING HANDLING commands, like INSERT and PLACE, to give you full control over string manipulation;

TEXT commands, such as CENTRE and PRINT AT, for screen formatting;

IMPROVED INPUT commands, like FETCH and INKEY;

EXTRA ARITHMETIC OPERATORS such as MOD and DIV;

NUMERIC CONVERSION commands for binary and hexadecimal conversion;

STRUCTURED PROGRAMMING commands such as PROC and IF ... THEN ... ELSE;

SCREEN MANIPULATION aids like SCRSV and COPY to load/save the screen or dump the screen to a printer;

GRAPHICS PLOTTING commands such as CIRCLE and PAINT;

SPRITE and USER-DEFINED GRAPHICS commands like DESIGN, MOB SET, DETECT and CHECK;

MUSIC commands such as WAVE and ENVELOPE; and

DISK commands, such as DIR, for file handling.

At the time of going to press, SIMON'S BASIC was still not available. All we can say at this time is that demand is sure to outstrip supply, so be sure to order NOW to avoid disappointment.

1701 MONITOR NOW AVAILABLE

The 1701 is a 13" hi-res monitor for either the VIC, C64 or a video tape recorder. It has direct video and audio inputs and separate luminance and chrominance video inputs for maximum quality from the C64.

Also available is the MICRON 12" monochrome monitor (\$199).

We are also one of the few centres which perform VHF conversions on C64s. The cost is \$60 and includes all labour and a second modulator. Normal UHF output is retained.

MODEMS

The word modem is a contraction of "modulator" and "demodulator". In simple terms, it is a device which connects your computer to the phone line. You can then talk to other users and swap programs either direct or via information utilities such as the Australian Beginning. We now have the SENDATA 300 direct connect 300 baud answer/originate modem in stock at \$299 including power supply and cables. This unit connects directly to the phone socket and to the user port on the VIC or C64. Terminal software available includes 64 TERM, 64-TALK and also VIC TERM. Australian Beginning membership is also available through us at \$35.

VIDEO DISPLAY SHEETS

Another first from HIGH TECHNOLOGY: we now have VIDEO DISPLAY SHEETS in books of 50 (\$4.99) for all you graphics freaks! The front page is a map of the video and colour screen, with memory locations marked, and overleaf are grids for sprite drawing and programmable characters.

NEW C64 SOFTWARE

Don't miss three fantastic new C64 programs from England, all in machine language and featuring high-res graphics.

HUSTLER is an uncannily life-like simulation of pool for one or two players. It has six games, requires joystick and is our after hours favourite.

MATRIX by Jeff Minter is for experienced GRIDRUNNER players and features a staggering 20 levels of fast high-res action.

LASERZONE, also by Jeff Minter is an ultra-challenging, 20-level skill game for one or two players. **WARNING:** this game is highly addictive and difficult to master!

CHARTPAK-64

Yet another first-class program from Roy Wainwright of ABACUS, **CHARTPAK-64** is a powerful menu-driven charting and plotting utility which provides professional-looking output from your data. It draws graphs, histograms, pie charts and more. Highly recommended.

TEACH YOURSELF TOUCH TYPING

Brush up your on typing skills with the **GAMEWORX TOUCH TYPING TUTOR** (\$23.50). Special features include full drilling of the complete alphabet, an endless page for typing practice without wasting paper, and graphic displays of all finger positions.

FORTH

FORTH is a fast alternative to BASIC for advanced programmers with heavy emphasis on stack operations and a dictionary of user-defined "words". We have two **FORTH** cartridges for the VIC - one from **HANDIC** (\$78.00) and another from **HES** (\$86.95). **TINY FORTH** from ABACUS is available for the C64 on disk at \$28.

ASSEMBLERS

What the world needs now is a really good 6502 assembler ... if you've been struggling along without one, check out the **PROSOFT** assembler at \$49.95 for VIC or C64 (tape or disk). This is a very powerful system with every feature you'll ever need, and includes a 30 page manual. Also from **PROSOFT** is the **CENTRONICS WEDGE** for VIC or C64, which drives parallel printers such as the **EPSON** from the user port ... excellent value at only \$19.95.

MISCELLANEOUS NOTES

We have direct video/audio cables (\$20) in stock ... VIC users: note heavy price drop on expansion memory e.g. 16K now only \$99 ... there are now more than 2 million VIC-20s worldwide ... portable version of C64 with inbuilt monitor and disk to be released late this year ...

NEW BOOKS

If you'd like to really make your VIC tick, we have **VIC REVEALED** (\$17.95) and **VIC GRAPHICS** (\$16.95) by Nick Hampshire. These contain a wealth of detail and practical, debugged routines. **VIC GRAPHICS** is of particular interest to those with the **SUPER EXPANDER** cartridge. For newer VIC users, **VIC BASIC** (\$23.95) is 360 pages of very easy-to-read and user-friendly help to the mysteries of your new VIC. For the C64, **THE WORKING 64** (\$19.95) is a very well documented collection of programming tricks and shortcuts. The **C64 GAMES BOOK** (\$19.95) is a great way to add to your library of C64 games at low cost, and **COMMODORE 64 COMPUTING** (\$24.95) is a favourite with beginners who want to expand their knowledge of the C64. **DR WATSON'S BEGINNING ASSEMBLY LANGUAGE** (\$35) is an ideal introduction to assembler and comes complete with a tape containing a monitor and assembler.

VIC FLIGHT SIMULATOR

Based on Boeing performance data for the 747 Jumbo jet, **747 PILOT** by **VICTAY** runs on a standard VIC with Super Expander and joystick. The hi-res display gives full instrument readout and is an excellent simulation. Available on cassette only (\$14.95).

SIMPLY WRITE and SIMPLY FILE

Also from England comes **SIMPLY WRITE** and **SIMPLY FILE**, a powerful word processor/database combination for the C64. **SIMPLY WRITE** is a no-compromise system suitable for home or business, and **SIMPLY FILE** is a total DBMS (Database Management System) which allows you to file and access a vast amount of data by a variety of criteria, and in a variety of formats. It even gives sequential file output from its random access files, or accepts sequential file input, so can link into your own programs. Write or call for detailed information.

1540 UPGRADE ROMS

We can now convert your 1540 disk drive to the functional equivalent of the 1541. The cost is \$50 including parts and labour.

PROGRAMMING NOTES

This month, a simple subroutine to plot barcharts from BASIC with a vertical resolution of 200 points:

```
60000 H=INT((D-1)/8):E=D-(H*8)
60010 IF H>0 THEN FOR I=1 TO H:
X=((I-1)*40):POKE S-X+C,160: POKE Q-
X+C, Z: NEXT
60020 X=H*40: POKE S-X+C, G(E): POKE
Q-X+C,Z:RETURN
61000 DATA 32, 100, 111, 121, 98,
248, 247, 227, 160
61010 FOR I=0 TO 8: READ G(I): NEXT
61020 S=1984: Q=56256: RETURN
```

To use this routine in your own program, you do a once-only GOSUB to subroutine 61000. Thereafter, GOSUB 60000 with C=column (0-39), D=height of bar (0-199), and Z=colour of bar (0-15). Values outside these limits may corrupt your BASIC program.

TOP VIC GAMES

Liven up your games library with these hot VIC-20 tapes:

PHAROAH'S TOMB is a full graphics adventure in which you must find the key to the Triangle of the Gods - requires 16K expansion

ZOK'S KINGDOM - your starship has crashed on a planet ruled by ZOK, a distant relative of Dracula! (16K)

GALACTIC ABDUCTOR - 100% machine language with brilliant graphics and unusual sound effects. Your

satellites are under attack by space hawks which abduct humanoids; rescue them before their skulls fall on the planet below! (16K, joystick req.)

WACKY WAITERS - a mad maelstrom of unsynchronised elevators, clumsy drunks, spilling drinks, hotel managers and difficult guests (any VIC)

3D TIME TREK- use the battle computer, long range sensors, galaxy map and navigational computer to avenge the destruction of the planet Corillian (any VIC, joystick)

CRAWLER - at the bottom of the mushroom garden, fight with centipeds, spiders and fleas with your laser cannon! (any VIC)

CAVERN FIGHTER - you are the pilot of a small spaceship which is armed with neutron blasters and plasma bombs and must fly over enemy guarded terrain to destroy their main base. Four levels, machine language, hi-res graphics (any VIC)

EDUCATIONAL SOFTWARE

Check out the fantastic range of educational software for the VIC and C64 under the MICRO-GENIUS label, right from kindergarten to high school. Subjects include Maths, English, Languages, Biology, Physics and more. Particularly good are **WORD PERFECT**, **BECI ADD/SUB** and **NUMER-BECI**, **WARRIOR WORDS** and **READING/SPELLING SKILLS**. **MICRO-GENIUS** also produces value-for-money word processors, databases, games and many other great products.

INTERPOD

INTERPOD is a dual interface suitable for connecting the VIC or C64 to up to 30 parallel IEEE-488 devices and a single RS-232 device. It is a fully intelligent system with its own 6502 processor, and connects via the serial port. Applications include driving the high capacity 4040, 8050, 8250 CBM dual disk drives or hard disks (with up to 10 Mbyte storage) or high quality daisywheel printers.

USER GROUPS

The Melbourne VIC user group meets on the fourth Tuesday of each month at the Nunawading Library, Whitehorse Rd at 7:30 PM ... the C64 group meets on the third Tuesday of each month at the Nunawading Primary School, Springvale Rd (near Whitehorse Rd) ... interstate groups: we'd be happy to include you here, so how about dropping us a line?

BEHIND THE SCENES AT HIGH TECH

Best howler this month - the lady who couldn't understand why she got a "BREAK ERROR" during a tape load when the cassette still seemed to be in one piece ... we've all seen **WARGAMES**, don't miss it ... has anyone beaten Jimmy's score of 6 balls in 7 shots in **HUSTLER**? ...

Until the next newsletter, stay **HIGH** on **TECHNOLOGY** and remember that we are always available for help with your problems, either at 87 Swan Street, Richmond, by phone on (03) 429 1966 or via Electronic Mail on the Australian Beginning to usernames **HIGHTECHCOM** or **HITECH**.

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HARDWARE & ACCESSORIES

VIC 20 Colour Computer	295.00
Commodore 64 Colour Computer	499.00
1530 Datasette	49.95
1541 Single Disk Drive (C64)	499.00
1520 Printer/plotter	299.00
1525 80 col printer	399.00
1526 80 col bi-dir printer	499.00
1701 Colour monitor	449.00
Brother HR15 daisywheel printer (incl. interface and cable)	899.00
Brother tractor feeder	189.00
Brother cut sheet feeder	449.00
Brother keyboard	349.00

VIC MEMORY EXPANSION

3K Memory Expander Cartridge	49.95
8K Memory Expander Cartridge	69.00
16K Memory Expander Cartridge	99.00
CURRAH 3 slot mother-board	54.00
OZI-SOFT 3-slot Expansion	59.95
1010 6 slot mother-board	199.00
24K/2 slot Expansion	219.00
ARFON 7 slot Expansion Module	249.00

JOYSTICKS & PADDLES

COMMODORE joystick	12.00
QUICK SHOT joystick	26.00
LE STICK special joystick	62.95
Paddle set (pair)	19.00
ATARI joystick conversion kit	7.95

MISC. HARDWARE

VIC/64 Switch & Comp Network	290.00
- 3 metre cable	18.20
- 6 metre cable	19.40
- 12 metre cable	21.80
1011a RS232C INTERFACE	49.95
VIC 40/80 column card	259.00
VIC CHATTERBOX speech synth.	99.00
Interpod	299.00
MSD C64 IEEE parallel card	175.00
MSD VIC IEEE parallel card	175.00
COMMODORE 64 Z80 cartridge	150.00
75/300 ohm baluns	2.50
User Port Connector	9.00
1520 pen refills	8.00
Direct Connect Modem	259.00
connects directly to VIC & C64	

BOOKS & MANUALS

VIC-20 EXPOSED	19.95
Personal Computing On The VIC	12.00
VIC 20 Programmers Ref. Guide	23.95
C64 Programmer's Ref. Guide	28.00
C64 Games Book	19.95
Commodore 64 EXPOSED	19.95
Easy guide to the Commodore 64	15.95
Giant Book of C64 games	24.95
Dynamic Games for Commodore 64	15.95
Commodore 64 Computing	24.95
The Working Commodore 64	21.95
Learning to use the C64	9.95
Commodore 64 machine code master	21.95
Dr Watsons Beg. Assembly 64	35.95
VIC Graphics	16.95
Symphony for a Melancholy VIC	18.00
Zap! Pow! Boom! VIC Games	24.95
VIC BASIC	23.95
BASIC-ENGLISH Dictionary	19.00
Machine Language Guide	12.00
Start with BASIC on VIC-20	18.00
Programming the PET/CBM	29.95
CBM Professional Comp. Guide	25.00
PET BASIC 1	20.25
Advanced 6502 interfacing	19.95
6502 Software Design	20.25
Prog. & Interfacing 6502	26.25
VIC REVEALED	17.50
VIC Innovative Computing	17.95
Learn Programming with the VIC	8.95

ACCESSORIES

VIC 1515 Printer Paper	29.96
VIC 1515 Printer Ribbon	13.60
1525/1526 Printer Paper	45.00
1525 Printer Ribbon.	12.00
1526 Printer Ribbon.	14.00
Light Pen	39.95
Blank Cassettes	1.20
Blank Diskettes (special)	2.99

 **commodore**
VIC 20

So much brain for so little.

VIC-20 SOFTWARE - CASSETTE

AARDVARK (Adventures +16K)

Earthquake	20.00
Quest	20.00
Pyramid	20.00
Mars	20.00
Circle World	20.00
Derelict	20.00
Vampire Castle	20.00
Haunted House	20.00
Trek	20.00
Nuclear Sub	20.00
Adventure Writing/Deathship	20.00
Concentration	20.00
Backgammon & Acey Ducey	20.00

ABACUS

Graphics	28.50
Vigil	33.00
Piper	28.00
Tiny BASIC Compiler	24.00
Cribbage	24.00
Hires/Multicolour Graphics	24.50
Joystick Painter	20.00
Budgeteer	23.50
I-CHING	29.00
Tiny PILOT	24.00
Super Expander Screen Dump	24.00
Quick Chart	20.00

ACME (requires 8K)

Locomotion	20.00
Vic-Derby	20.00
Sentinels	20.00
Vic-Voice	20.00

ANIROG

Crawler	18.00
Dotman	18.00
Cavern Fighter	18.00
Xeno II	18.00
Krazy Kong	18.00
Galactic Intruder	18.00
Pharaoh's Tomb	18.00
Frogrun	18.00
Zok's Kingdom	18.00
Tiny Tots Seven	18.00
3D Time Trek	18.00
Games Pack (Vol 1)	18.00
Games Pack (Vol 2)	18.00
Slap Dab	18.00

AUTOMATED SIMULATIONS/EPYX

Crush Crumble Chomp	45.95
Datestones of Ryn	32.95
Invasion of Orion	38.95
Monster maze	61.95
Rescue at Rigel	45.95
Ricochet	32.95
Sword at Fargoal	45.95

COMMODORE

We want to Count	28.00
Facemaker	28.00
Twister	28.00
Number Gulper	28.00
Rainbow Towers	28.00
Car Chase	15.00
VIC 21	15.00
Blue Meanies	15.00
Biorythm	15.00

Space Math	15.00
Slither/Super Slither	15.00
Recreation Program Pack A	66.00
Personal Finance I	15.00
Personal Finance II	15.00
Vic Typewriter	15.00
Expense Calendar	15.00
Loan & Mortgage Calculator	15.00
Home Calculation Pack A	66.00
Prog. characters/graphics editor	32.00
Introduction to Basic Part 1	30.00
Part 2	30.00
Cosmic Jailbreak	39.95
Menagerie	39.95
Garden Wars	39.95
Home Babysitter	39.95
Visible Solar System	39.95
Simplicalc (Disk)	59.95
Simplicalc (Cass)	49.95
VicFile (Disk)	59.95
Vic Money Manager (cass)	49.95
Personal Finance (cart)	39.95
Vicwriter (Disk)	59.95
Vicwriter (cass)	49.95
Quizmaster	25.00
BBC Mastermind	25.00
General Knowledge - Data 1	10.00
General Knowledge - Data 2	10.00
General Knowledge - Data 3	10.00
General Knowledge - Data 4	10.00
Wine & Food	10.00
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Sport & Games	10.00
Films & T.V.	10.00
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Know your child's I.Q.	25.00
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Number Guzzler	28.00
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Music-Treble Staff	20.40	Parts of Speech	12.95
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Guess My Number	18.15	French Flash Cards	12.95
Year 1 Spelling	18.15	Add/Sub	24.95
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Year 3 Spelling	18.15	Alpha-BECI	24.95
Year 4 Spelling	18.15	Alphabet & Beetle	12.95
Year 5 Spelling	18.15	Simply-Write (+16K)	85.95
Year 6 Spelling	18.15	Copycalc	24.95
Spelling Package Years 1-6	71.00	Micro Word Processor	49.95
Maths Builder	18.15	Micro Inventory	19.95
Prep School Package	18.15	Babies Vic.	19.95
Vic Tales	18.15	Math Marauders	19.95
Word Power	18.15	Verbs	12.95
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Geography Package	43.20	Reading/Spelling Skills	19.95
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Divitute	18.15	Funtime	19.95
		747 pilot (req. super expander)	14.95
GAMEWORX (Adventures Std Memory)		Calculus	12.95
Castle Tollenkar	19.50	Physics	12.95
Secret of Bastow Manor	19.50		
Mystery Island	19.50	ONLINE	
Sorcerer & the Princess	19.50	Crossfire	45.95
HES		OZI-SOFT	
Maze of Mikor	26.95	Road Toad	19.95
Pinball	23.95	Chicken Chase	19.95
Tank Wars	23.95	Mosquitoes	19.95
Laser Blitz	26.95	Escape from Orion	19.95
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Pak Bomber	23.95	Trek	16.95
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Tank Trap	26.95	Blasteroids	15.95
		Cosmic Crusader	19.95
IMAGINE SOFTWARE		Cosmic Crystals	19.95
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		Chimp Chase	15.95
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Vic Rescue	18.00	Tunnel Patrol	15.95
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		Fruit Flys	15.95
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Matrix	21.95	Maths Addition	14.95
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		Cosmic Debris	16.95
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Innovative Cassette 1	20.00	Games Pack II (3 programs)	16.95
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Star Defender	19.95
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PIXEL

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QUICKSILVA

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Tornado	19.95

RABBIT

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Orbis	17.00
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Hopper	17.00
Frogger	17.00
Myriad	17.00
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Rabbit Calc	29.50

ROMIK

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Space Attack	19.95
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SATURN SOFTWARE

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Starfighter	16.95
Hangman	16.95
Reversal	14.95
Reversal II	16.95
Typing Drill	14.95
Mathdrill	14.95
Home Finance	14.95
Household Inventory (8K)	24.95
Stock Portfolio Manager (8K)	29.95
Cassette Data Manager (8K)	29.95
Meteorites	14.95

STACK Lightpen Games

Othello	20.00
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